

Form 1449 Based on Form PTO-1449		ATTY. DOCKET NO. VT-2165/02	APPLICATION SERIAL NO. 10/683643
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FIRST NAMED INVENTOR Barker et al.	
Sheet 1 of 5		FILING DATE October 9, 2003	ART UNIT Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	CITE NO.	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	LOCATION WHERE RELEVANT PASSAGES OR FIGURES APPEAR
<i>M</i>	AA	US-5,910,382	06/08/99	Goodenough et al.	
	AB	US-5,871,866	02/16/99	Barker et al.	
	AC	US-5,514,490	05/07/96	Chen et al.	
	AD	US-5,296,436	03/22/94	Bortinger	
	AE	US-5,262,548	11/16/93	Barone	
	AF	US-5,232,794	08/03/93	Krumpelt et al.	
	AG	US-4,985,317	01/15/91	Adachi et al.	
	AH	US-4,707,422	11/17/87	deNeufville et al.	
	AI	US-4,690,877	09/01/87	Gabano et al.	
	AJ	US-4,683,181	07/28/87	Armand et al.	
	AK	US-4,512,905	04/23/85	Clearfield et al	
	AL	US-4,434,216	02/28/84	Joshi et al.	
<i>M</i>	AM	US-4,260,668	04/07/81	Lecerf et al.	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	CITE NO.	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	LOCATION WHERE RELEVANT PASSAGES OR FIGURES APPEAR	T
<i>M</i>	CA	EP 1 094 532 A1	4/25/2001	Sony Corporation		No
	CB	WO 00/57505	9/25/2000	Valence Technology, Inc.		No
	CC	WO 01/53198	7/26/2001	Valence Technology, Inc.		No
<i>M</i>	CD	WO 01/54212	7/26/2001	Valence Technology, Inc.		No

EXAMINER	<i>ADM</i>	DATE CONSIDERED	<i>11/29/04</i>
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CC	AN	US-4,049,891	09/20/77	Hong et al.	
	AO	US-4,009,092	02/22/77	Taylor	
	AP	US-3,736,184	05/29/75	Dey et al.	
	AQ	US-6,085,015	07/04/00	Armand et al.	
	AR	US-5,281,496	01/25/94	Clarke	
	AS	US-5,683,835	11/04/97	Bruce	
	AT	US-5,512,214	04/30/96	Kokshang	
	AU	US-5,316,877	05/31/94	Thackeray et al.	
	AV	US-5,240,794	08/31/93	Thackeray et al.	
	AW	US-5,803,947	09/08/98	Engell et al	
	AX	US-5,607,297	03/04/97	Henley et al.	
	AY	US-5,384,291	01/24/95	Weimer et al.	
W	AZ	US-4,177,060	12/04/79	Tylko	

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W	CE	EP 0 680 106 A1	11/02/95			Yes
	CF	JP 61 263069		Mizuno		Yes
	CG	WO 98/12761	03/26/98			No
W	CH	WO/01024	01/06/00			No

EXAMINER	<i>Wm W</i>	DATE CONSIDERED	<i>11/29/04</i>
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<i>Re</i>	BA	US-3,865,745	02/11/75	Block et al.	
	BB	US-2,570,232	10/09/51	Hansgning	
	BC	US-2,508,878	05/23/50	Yates et al.	
	BD	US-4,427,652	01-1984	Gaffar	
	BE	US-4,460,565	07-1984	Westrate et al.	
<i>Re</i>	BF	US-4,828,833	03-1989	Cordon	

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<i>M</i>	CI	EP 1 049 182 A2	11/02/00			Yes
	CJ	JP 2001-11-0414	04/20/01			Yes
	CK	JP 2001-08-5010	03/30/01			Yes
	CL	JP 9134725	05/20/97			Yes
	CM	JP 9134724	05/20/97			Yes
	CN	JP 62176054 (abstract)	08/01/87			No
	CO	JP 56162477 (abstract)	12/14/81			No
	CP	RU 2038395 (abstract)	06/27/95			No
<i>M</i>	CQ	EP 1094533 A1	04/25/01			No

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIALS	CITE NO.	
<i>TC</i>	DA	International Search Report for PCT/US97/15544
	DB	Rangan et al., "New Titanium-Vanadium Phosphates of Nasicon and Langbeinite Structures and Differences Between the Two Structures Toward Deintercalation of Alkali Metal," JOURNAL OF SOLID STATE CHEMISTRY, 109 (1994) pp. 116-121
	DC	Delmas et al., "The Nasicon-Type Titanium Phosphates $ATi_2(PO_4)_3$ (A= Li, Na) as Electrode Materials," SOLID STATE IONICS (1988) 28-30 pp.419-423
	DD	Hagenmuller et al., "Intercalation in 3D-Skeleton Structures: Ionic and Electronic Features," MATERIAL RESOURCES SOCIETY SYMPOSIUM PROC., Vol. 210 (1991) pp. 323-334
	DE	Padhi et al., "Lithium Intercalation into NASICON-Type Mixed Phosphates: ... and $Li_2FeTi(PO_4)_3$," 37 th Power Sources Conference, Cherry Hill, New Jersey, Conference Data, June 17-20, 1996, published October 15, 1996
	DF	Sisler et al., "Chemistry A systemic Approach," OXFORD UNIVERSITY PRESS, p 746, 1980
	DG	Gopalakrishnan et al., " $V_2(PO_4)_3$: A Novel NASICON-Type Vanadium Phosphate Synthesized by Oxidative Deintercalation of Sodium from $Na_3V_2(PO_4)_3$," CHEMISTRY OF MATERIALS, Vol. 4, No. 4, July/August 1992, pp. 743-747
	DH	Delmas et al., "The Chemical Short Circuit Method, An Improvement in the Intercalation-Deintercalation Techniques," MATERIALS RESEARCH BULLETIN, Vol. 23, 1988, pp. 65-72
	DI	Ivanov-Schitz et al., "Electrical And Interfacial Properties of a $Li_3Fe_2(PO_4)_3$ Single Crystal With Silver Electrodes," SOLID STATE IONICS, 91, (1996), pp. 93-99
	DJ	Cretin et al., "Study Of $Li_{1-x}Al_xTi_{2-x}(PO_4)_3$ for Li+ Potentiometric Sensors," JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, 15, (1995) pp. 1149-1156
	DK	Patent Abstracts of Japan (1994) Vol. 18, No. 64, (Abstract for JP 06251764)
	DL	Okada et al., Center for Materials Science & Engineering, University of Texas, Austin, Texas, " $Fe_2(SO_4)_3$ as a Cathode Material for Rechargeable Lithium Batteries."
	DM	Adachi et al., "Lithium Ion Conductive Solid Electrolyte," Chemical Abstracts 112 129692 (1981)
	DN	Delmas et al., "A Nasicon-Type Phase as Intercalation Electrode: Sodium Titanium Phosphate ($NaTi_2(PO_4)_3$)," MATERIAL RESOURCES BULLETIN (1987)
<i>TC</i>	DO	Nanjundaswamy et al., "Synthesis, redox potential Evaluation and Electrochemical Characteristics of NASICON-Related-3D Framework Compounds," SOLID STATE IONICS, 92, (1996) pp. 1-10
EXAMINER		DATE CONSIDERED

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIALS	CITE NO.	
<i>ll</i>	DP	Nadiri, "Lithium Intercalation in Lithium Titanium Phosphate (LiTi ₂ (PO ₄) ₃)," C.R. Acad. Sci. Ser. 2 (1987), 304(9), pp 415-418
	DQ	Cotton et al., "Advanced Inorganic Chemistry," 3 rd Edition, INTERSCIENCE PUBLISHERS, pp. 864-868
	DR	Linden, "Handbook of Batteries," 2 nd Edition, MCGRAW-HILL, INC. pp36.4-36.9
	DS	Bykov et al., Superionic Conductors Li ₃ M ₂ (PO ₄) ₃ (M= Fe, Sc, Cr): Synthesis, Structure and Electrophysical Properties," SOLID STATE IONICS, Vol.38 (1990) pp. 31-52
	DT	Gummow, et al., "Lithium Extraction from Orthorhombic Lithium Manganese Oxide and the Phase Transformation to Spinel," MATERIALS RESEARCH BULLETIN (1993), 28(12), 1249-56
	DU	Gummow, et al., "An Investigation of Spinel-Related and Orthorhombic LiMnO ₂ Cathodes for Rechargeable Lithium Batteries," J. ELECTROCHEM. SOC. (1994), 141(5), 1178-82
	DV	Otsuka, et al., "Hydrogen Production from Water by Indium (III) Oxide and Potassium Carbonate Using Graphite, Active Carbon and Biomass as Reductants," CHEM. LETT. (1981), (3), 347-50
	DW	Vasyutinskii, "Appearance of EMF During Ferric Oxide Reduction by Carbon," ZH. PRIKL. KHM., (1973) 46(4), 779-82 (Abstract)
<i>ll</i>	DX	Gilchrist, Extraction Metallurgy, Pergamon Press (1980, pp. 160-173
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